

Synchronous Motor/Generator 579502 (8241-20)

FESTO

LabVolt Series

Datasheet



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General Description

The Synchronous Motor/Generator is a 0.2 kW three-phase synchronous machine mounted in a full-size EMS module. This machine can be operated either as a three-phase motor or a three-phase generator. Each phase of the machine stator windings is independently terminated and identified on the front panel to allow operation in either wye or delta configuration. The machine rotor is equipped with a squirrel-cage damper. Variable dc excitation to the rotor field windings is fed through externally mounted slip rings and brushes that are wired to a rheostat and control switch located on the front panel.

Connections to the machine are made through color-coded safety banana jacks located on the front panel of the module. This front panel of the module can be opened to install a Timing Belt, Model 8942, on the pulley of the machine shaft. This permits mechanical coupling of the machine to the Four-Quadrant Dynamometer/Power Supply, Model 8960. The machine has a thermistor output that allows monitoring of the machine internal temperature to prevent overheating.

Specifications

Parameter	Value
Power Requirement	120/208 V
Motor	
Stator Voltage	120/208 V, three-phase
Rotor Voltage	0-150 V dc
Output Power	200 W
Synchronous Speed	1800 r/min
Full-Load Current	0.55 A
Power Factor	1
Generator	
Stator Voltage	120/208 V, three-phase
Rotor Voltage	0-150 V dc
Output Power	200 VA
Synchronous Speed	1800 r/min
Power Factor	0.8
Protection	
Type	10 k Ω thermistor, type 2, in the stator winding, and rotor field bimetal thermal protection
Physical Characteristics	
Dimensions (H x W x D)	308 x 291 x 440 mm (12.1 x 11.5 x 17.3 in)
Net Weight	TBE

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